

ABSTRACT

The present invention provides a manufacturing method for an oxide-dispersed alloy in which dispersed particles consisting of oxides of one or two or more kinds of additive metals are dispersed in a matrix metal, comprising the steps of (a) manufacturing alloy powder or an alloy wire rod consisting of the matrix metal and the additive metal; (b) oxidizing the additive metal in the alloy powder by water to form dispersed particles by introducing the alloy powder or alloy wire rod into a high-energy ball mill with water and by making agitation; and (c) moldeedin solidifying the alloy powder or alloy wire rod after oxidation. The present invention is especially useful in manufacturing an oxide-dispersed alloy in which the free energy of oxide formation of the matrix metal is higher than water standard free energy of formation , and the free energy of oxide formation of the additive metal is lower than water standard free energy of formation.